

APPENDIX A. QUICK CROSS-REFERENCE – SURF 2006

STUDENT	UNIVERSITY	TALK TITLE	OU
Althouse, Chad	Pennsylvania State University	Electrical Measurements of Self Assembled Monolayers	EEEL
Ames, William	College of William and Mary	Measurements of Radon Diffusion Coefficient with NIST Radon Standard as a Source	PL
Anton, Steven	University of Delaware	Calibration of Radioactive Seeds Used in Brachytherapy	PL
Aranchuk, Tatsiana	University of Mississippi	Electrostatic Sensing of DNA Using Field Effect Transistors	EEEL
Baler, Kevin	Cornell University	In Search of Anisotropy in Cobalt Nanoparticles	MSEL
Bhaskar, Siddharth	Princeton University	Towards a Simple, Effective Database of Medical Codes	MEL
Brazin, Jacqueline	Massachusetts Institute of Technology	Fabrication and Characterization of Polymer Microsphere Test Standards for Trace Explosive and Narcotic Detection Portal Systems	CSTL
Brown, Roger	Colorado School of Mines	Quantum Phase Transitions in the Hubbard Model	PL
Buck, Joshua	University of Tulsa	Microhotplate Characterization and SoC Development	EEEL
Burke, Shannon M.	University of Tulsa	Optimizing and Characterizing Systems for Microchip-Based Microwave-Heated PCR	EEEL
Campbell, Daniel	Hamilton College	Neutron Beam Collimation Using Monte Carlo Simulation Techniques	PL
Cao, Guy	University of Maryland, College Park	Implementation of Additional Capabilities of e-Fits using Java Applet	ITL
Cheng, Kevin	Pennsylvania State University	Evaluation of the Stability of NST Natural-Matrix Radionuclide SRM	PL
Christopher, L. Bailee	Appalachian State University	Modeling a Medical Particle Accelerator Using Monte Carlo Simulation Methods	PL
Clayton, Daniel	Davidson College	Optimization, Quality Assurance, and Quality Control in Neutron Detector Development	CSTL
Cope, Stephanie	Georgetown University	Simulating Heat Transfer in a Water Calorimeter for Use in Radiation Dose Standardization	PL
Cotts, Sarah	College of William and Mary	Interfacial Molecular Charge Transport in Monolayer Films	CSTL
Crawford, Evan B.	Yale University	Developing a Rapid LSC Screening Method for ⁹⁰ Sr Contamination in Urine	PL
Cruz, Coral	University of Puerto Rico, Mayaguez	The Effectiveness of Combinatorial Methodology on the Exploration of TaAlN Metal Gate Electrodes on HfO ₂	MSEL
Denomme, Carolyn	Pennsylvania State University	Towards the Redefinition of the Kilogram: Magnetic Levitation of Mass Standards	MEL
Do, Chi T. (William)	Montgomery College	Microstructure and Thermal Conductivity	BFRL
Doane, Nathaniel	St. Mary's College of Maryland	Quantification of Capsaicinoids in Hot Peppers Using Liquid Chromatography / Mass Spectrometry	CSTL
Dopkiss, Matthew	Miami (Ohio) University	Performance Comparisons of InGaAs, Extended InGaAs, and Short-Wave HgCdTe Detectors Between 1 μm and 2.5 μm	PL
Dorsey, Shauna	University of Maryland, College Park	Three-Dimensional Imaging of Polymer Scaffold Gradients	MSEL
Dunne, Cody	Cornell College	Human Computer Interfaces of Tomorrow: How Science Fiction Has Become Reality	MEL
Dunstan, Robyn M.	Elizabethtown College	Suppression of Coherence in Electron Microscopy	PL
Ellis, Megan	University of Connecticut	Collagen Matrix Micropatterning Using Localized Heat	EEEL
Erwin, Dylan	University of Maryland, College Park	Light Polarization and Spatial Light Modulation	PL
Eshraghi, Shima	University of Maryland, College Park	Measuring Cognitive Abilities of Artificial Systems	MEL
Fillipo, Amelia	Millersville University of Pennsylvania	Ph-ISFETs in Microfluidics: Qualitative Analysis of Variance and Comparison with Fluorescent pH Indicator	EEEL
Forbes, Michael A.	Massachusetts Institute of Technology	Combinatorial Designs and Their Impact on Software Testing	ITL
Fortuna, Emily	Rice University	<i>Ontolex</i> : Extending the Computational “Basic Reference Model” for Second Language Learning	ITL
Garcia, Jose	University of Puerto Rico, Mayaguez	Electrical and Chemical Characterization of Multi-Walled Carbon Nanotubes Coated in Streptavidin	CSTL
Gardner, Andrew	State University of New York, Binghamton	Adhesion and Release in Nanoimprint Lithography	MSEL
Gehret, Jennifer	University of Maryland, College Park	Measuring DNA Microarray Performance	CSTL

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Gilbert, Jereme	University of North Carolina, Charlotte	Determining the Location of the Hip Joint Center: Investigation of Algorithms and Factors for Location	MEL
Goldman, Joshua	State University of New York, Binghamton	Mechanisms of Water-Induced Adhesion Loss	BFRL
Gorbach, Michael	Swarthmore College	Monte Carlo Modeling of Magnetic Cobalt Nanoparticles	PL
Graneto, Nora	St. Joseph's University	A Study of New Colorimetric Radiation Dosimeter	PL
Green, Nelson	Kansas State University	Thermophoretic Sampling of Soot from a Diffusion Spray Flame	CSTL
Guzman, Julian	University of Florida	Bi ₂ O ₃ , Al ₂ O ₃ , Nb ₂ O ₅ Equilibrium Phase Diagram	MSEL
Hackenmueller, Sarah	Gustavus Adolphus College	Towards Protein Resistance of Silicon	EEEL
Hansen, Azure	State University of New York, Stony Brook	An Optical Vortex-Based Azimuthal Lattice for a Bose-Einstein Condensate	PL
Henann, David	State University of New York, Binghamton	How to Pull a Nanowire: Developing Nanomechanical Testing Configurations	MSEL
Hong, Sam	Boston University	Polyelectrolyte Deep Eutectic Solvents	MSEL
Howley, Iris	Drexel University	Developing a Robot Classification System for Urban Search and Rescue	MEL
Huang, Jay	State University of New York, Binghamton	Computer-Controlled Instrumentation for a Silicon Carbide Power Device Long-Term Reliability Test Circuit	EEEL
Hudson, Jameela C.	University of Toledo	Improving Voting Standards	ITL
Huffer, Craig	Indiana University, Bloomington	Surface Barrier Detector Properties for the Precise Neutron Flux Measurement	PL
Huntemann, Tabitha L.	St. Mary's College of Maryland	Development of a Computer Based Fire Fighter Training Tool	BFRL
Keeney, Ashley	Mount St. Mary's University	Surface Derivatization of Thermoplastics for Increased Hydrophilicity	CSTL
Kenney, Jacqueline	Loyola College in Maryland	Performance Analysis of 3D Flash LADAR	MEL
Keslin, Jeff	University of Maryland, College Park	Validation of Stereoscopic PIV for Large-Scale Fire Induced Flow Measurements	BFRL
Kinahan, Michelle	University of Florida	Characterization and Optimization of Tethered Bilayer Lipid Membranes	MSEL
Lemons, Kristen	Williams College	Obtaining Slow Light Via Electromagnetically Induced Transparency	PL
Maditz, Rhyann	University of Maryland, College Park	Trace Detection of Illicit Narcotics Utilizing Ion Mobility Spectrometry	CSTL
Maldonado, Lauren	University of North Carolina, Charlotte	Micromanipulation Technology	MEL
Mansfeldt, Cresten	University of Minnesota	The Fate of Nanomaterials in Water Treatment	CSTL
Manweiler, Justin	College of William and Mary	NIST Conformance Testing Framework Promotes HL7 Compliance	ITL
McKay, Christine	University of Maryland, College Park	A User Interface to a Distributed Computing Environment	ITL
Medina, Billy	Polytechnic University of Puerto Rico	File Change Analysis <i>OS Startup</i> (System Boot)	ITL
Meister, Jeffrey	University of Maryland, College Park	Software Assurance Metrics and Tool Evaluation to Enhance Software Security	ITL
Miller, William	University of Maryland, Baltimore	Making Your Life Easier: Advancing Smart and Wireless Transducer Interface Standards	MEL
Morgan, Brian	Gettysburg College	Effects of Surface Roughness on Instrumented Indentation	BFRL
Nawabi-Ghasimi, Fred	St. Mary's College of Maryland	Quantitative and Qualitative Analysis of the Uptake of Polystyrene Microspheres by Human B-Lymphocytes	CSTL
Nie, Edward	University of Pennsylvania	Application of Thin-Film NiSi Kinetics to Nanocalorimetry of NiSi	MSEL
Noonan, Kathryn	College of Holy Cross	The Development of a Raman Standard for 633 nm Excitation Source	CSTL
Ostapenko, Tanya	Gettysburg College	Temperature Corrections in Industrial Irradiation Processing	PL
Peck, Jordan	State University of New York, Binghamton	A Study of Electrochemical Joining for Micro-Wires	MEL
Peterson, Eric D.	Appalachian State University	Plasma Oxidation of Ultra-Thin Aluminum Layers for Magnetic Tunnel Junctions	PL
Phan, Catherine	University of California, Irvine	Redefining the SI Kilogram and Implementing a Magnetic Levitation Balance	MEL
Polimeni, Gina	Kennesaw State University	Using Small Angle Neutron Scattering to Investigate the Phase Behaviors of Mixed Lipid Systems	MSEL

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Ramo, Jarred	Cornell University	Spatial Statistics for Carbon Nanotubes	ITL
Ramos, Danielle	University of Nevada, Reno	Comparison of Density Instruments for Use in Commodity Package Testing	MEL
Rastogi, Ashwin	College of William and Mary	Quantum Mechanics of a Magnetic Field Generated by Non-Abelian Vector Potential	PL
Rock, Reza	University of Delaware	Contrast Enhancement and Applications of Graphite Superlattice Modeling	MSEL
Royer, James	University of Maryland, College Park	Solution Processed Small Molecule Thin Film Transistors	EEEL
Sackett, Hillary	Smith College	Development of 3-D Geometries for Respirator Flow Field Modeling	BFRL
Santana, Jose	University of Connecticut	Characterization of Synephrine in Dietary Supplements Containing Bitter Orange	CSTL
Santiago, Michael	University of Puerto Rico, Mayaguez	Radiolabeling of p-SCN-Bn-DOTA with Po-210 for Applications in Angiogenesis-Targeted Radioimmunotherapy: HPLC Method Development	PL
Schaumberg, Andrew	University of Wisconsin, Platteville	Exploring Millennial's Information Habits and Expectations of Library Resources	MEL
Schirmer, Daniel	Colorado School of Mines	Phases of Ultra Cold Gases in the Fermi-Bose Hubbard Model	PL
Schnieders, Alexandra	University of Southern California, Los Angeles	Rubidium Tools: Atomic Beam Production and Quantum State Manipulation	PL
Schwalbach, Edwin J.	Illinois Institute of Technology	Examining Lipid Bilayer Molecular Dynamics by Neutron Scattering and Molecular Dynamics Simulations	MSEL
Schwartz, Ed	Millersville University of Pennsylvania	Application of Parallel Tempering to Neutron Reflectometry Data	MSEL
Shackelford, Scott	University of Maryland, Baltimore	The Hall Effect	EEEL
Shaffner, Tom	Virginia Military Institute	Spin Diffusion Transistors	MSEL
Shen, John	California Institute of Technology	Investigation of Hot Particles in Rocky Flats Soil Material	PL
Shiu, John	University of Maryland, College Park	Examining Sensor Location Algorithms from a Different Angle	ITL
Sit, Joseph	University of Maryland, College Park	Assaying Peptide Gradients with Epifluorescence Microscopy	MSEL
Smith, Adrienne	Northwestern University	Immuno-Fluorescent Staining for Telomerase: Cell Population Expression Variability	MSEL
Sorbello, Robert	Villanova University	Modeling of Aluminum and Copper Interconnect Features with Dee-Sub-Micrometer CDs at GHz Frequencies	EEEL
Strawbridge, Matthew	Salisbury University	A Fourier Transform Analysis of Human Images for Evaluation of Thermal Imaging Cameras	BFRL
Tabat, James	University of Minnesota	Testing Long Term Calibration Stability of Flow Meters	CSTL
Toutouchian, Sam	Moorpark College	Literature Study of the Supply Change of Medical Devices	MEL
Travers, Ryan	University of Maryland, College Park	Positive Pressure Ventilation	BFRL
Travis, Katherine	Smith College	Auto-Generation of C-Code to Improve Efficiency of a PDE Solver Written in Python	MSEL
Turov, Yevgeniya	University of Oregon	Self-Assembly of Fluorinated Surfactants in Ionic Liquids	MSEL
Vierling, Ryan	University of Tulsa	Probing the Molecular-Level Understanding of Protein Adsorption to Surfaces	CSTL
Wahl, Christopher	State University of New York, Geneseo	Investigation of Source Detection Algorithms for Radiation Portal Monitors	PL
Walker, Bryant	Rensselaer Polytechnic Institute	Behavior of Single Walled Carbon Nanotubes in Aqueous Suspension	MSEL
Walker, Carrie	University of Southern Mississippi	Photobleaching of Cy3 in Single-Molecule Fluorescence Studies	PL
Walker, Thomas	Pennsylvania State University	Measurement and Modeling of Contact Potential Difference with Scanning Kelvin Force Microscopy	EEEL
Wiley, Jennifer	University of Maryland, College Park	Large Eddy Simulation of Partially-Premixed Combustion Following Ignition of a Fuel Vapor Cloud	BFRL
Williams, Daniel	University of Nebraska, Lincoln	High Contrast Images Made Possible by Adjustment of Illumination in the Visible and Near-Infrared Light Regions	PL
Willoughby, David	University of North Carolina, Charlotte	Physics Based Modeling of Machining	MEL
Wong, Kristin	Santa Monica College	Determination of Caffeine and Caffeine-Related Analogs in Candidate NIST Green Tea SRMs	CSTL
Wright, Amelia	Johns Hopkins University	Wind Load Factors for Tall Buildings	BFRL

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Xu, Phyllis	Massachusetts Institute of Technology	High Resolution X-Ray Diffraction: Characterizing Aspects of a NIST SRM	MSEL
Yan, Victoria	University of Maryland, College Park	Converting Young's Modulus MATLAB Programs to Web-Based Data Analysis Sheets	EEEL
Yocklovich, Jenna	Millersville University of Pennsylvania	Dynamic Web-Based Repository for Healthcare Standards Information	ITL
Zoller, Benjamin	University of Maryland, College Park	Developing a Computer Forensics Tool to Output a Windows Registry Dataset to an XML-Based Format	ITL